

of flexible production of identically constructed terminal silencers tunable by means of variable silencing characteristics to various drives.

This task is solved according to the invention by means of the features indicated in the characteristics of Patent Claim 1.

Exhaust silencers according to the invention thus offer the best qualities, especially for the construction of terminal silencers, since the clear trend toward modularization in motor vehicle construction can be joined, in that the hole pipes of the Helmholtz resonator can be constructed as modular parts, especially from die cast aluminum or plastic, and can be configured with identical modular configuration with variable tuned openings specifications for respective given volumes with identical chamber configurations.

Subclaims 2-4 describe preferred construction forms of the exhaust silencer according to the invention. Claim 5 concerns the use of an exhaust silencer according to the invention as a terminal silencer in the exhaust assembly of an automobile.

IN THE CLAIMS:

Please cancel claims 1-7 and replace them with new claims 8-12 as follows:

8. Exhaust silencer, comprised of a gas-conducting pipe (2) having openings of a defined cross-section (5) and defined wall height, arranged in a silencer housing (1) in such a manner that it runs through an axial series of silencer housing chambers insulated gastight from each other (6, 6'), into which the openings (5) of the gas-conducting pipe (2) communicatively open, whereby the volumes of all chambers (6, 6') of the silencer housing (1) in connection with the defined openings specifications of all openings (5) of the openings of the pipe communicatively aligned with the respective silencer housing chamber (6, 6') are tunable to an

interference frequency band from the noise spectrum of the exhaust gases to be dampened respectively, and the gas-conducting pipe (2) can be led through the silencer housing chambers (6, 6') in such a manner that the latter run through each of the silencer housing chambers (6) at least twice, with minimal dissipation losses,

characterized by the fact that

the gas-conducting pipe (2) is constructed as a modular part for a two-part silencer housing (1), and

the modular part of a modular series of modular parts is configured with different openings characteristics, tuned to the same respective silencer housing chamber volumes.

9. Exhaust silencer according to Claim 8, characterized by a U-shaped configuration (3, 4) of the pipe assembly in the silencer housing (1).
10. Exhaust silencer according to Claim 8, characterized by an S-form configuration (3, 4') of the pipe assembly in the silencer housing (1).
11. Exhaust silencer according to claim 8, characterized by a gas-conducting pipe (2) of die cast aluminum or plastic.
12. Use of the exhaust silencer with characteristics according to Claim 8 as terminal silencer in exhaust installations for motor vehicles.